



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Peter Graham Craven, et al.

Serial No.: 10/694,712

Filing Date: October 27, 2003

Title: Lossless Coding Method For  
Waveform Data

Examiner: David D. Knepper

Art Unit: 2645

January 14, 2004  
San Francisco, California

Commissioner of Patents  
P.O. Box 1450  
Alexandra, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to the duty of disclosure set forth in 37 CFR § 1.56, Applicants respectfully submit the following information disclosure statement.

The disclosed references are:

US 3,569,952, issued 03/09/71, Hans R. Schindler, filed 12/12/67.

US 3,613,067, issued 10/12/71, Haberle, Heinz, filed 07/15/69.

US 3,676,600, issued 07/11/72, Kaneko et al., filed 06/22/70.

US 3,745,562, issued 07/10/73, Rosenbaum, Arnold Stephen, filed 12/30/71.

US 3,754,238, issued 08/21/73, Oswald, Jacques, filed 04/02/70.

US 3,795,900, issued 03/05/74, Monford, Jr., Leo G., filed 11/09/71.

US 3,909,721; issued 09/30/75, Bussgang, et al. filed 02/28/74.

US 3,937,897, issued 02/10/76, Song, Ching-Long, filed 07/25/74.

US 4,379,286, issued 04/05/83, Yokota et al., filed 07/22/81.

US 4,520,491, issued 05/28/85, Raulin et al. filed 11/04/82.

US 4,614,934, issued 09/30/86, Kobayashi et al., filed 02/10/84.

US 4,821,119, issued 4/11/89, Gharavi et al. filed 05/04/88.

US 5,070,515, issued 12/03/91, Iwahashi et al. filed 02/28/89.

US 5,818,834, issued 10/06/98, Skierszkan et al., filed 03/11/96.

US 6,480,550, issued 11/12/02, Zimmermann, Gerhard, filed 12/3/96.

EP 0 504 627 A2 European Patent Office, published 09/23/92.

EP 0 504 927 A2 European Patent Office, published 09/23/92.

EP 0 596 663 A2 European Patent Office, published 05/11/94.

Rich Bastian, Subjective Improvements in DPCM-AQ Performance Based on Adaptive Noise Shaping, IEEE; Transmission on Accoustics, Speech & Signal Processing, Vol. ASSP-29, No. 5, October, 1981, pages 1067-1071.

Jae Jeong Hwang et al., Transmission Noise Eliminations in BDPCM Image. IEEE Transactions on Consumer Electronics, Vol. 39, No. 3, August, 1993, pages 151-158.

The present application is a divisional application of U.S. patent application number 08/952,743 filed May 17, 1999, which issued as patent number 6,664,913 on December 16, 2003. References cited during prosecution of the parent application, either disclosed by Applicants or reported by the Examiners, are listed on the accompanying form PTO-1449. Inasmuch as these references should be available from the files of the parent application, Applicants have not submitted copies with this statement.

Applicants respectfully request that the Examiner initial the cited references shown on the enclosed form PTO-1449 and that the references be made of record in the present application.

Respectfully submitted,

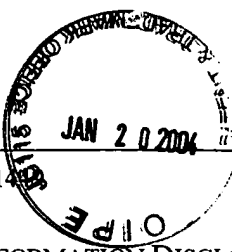
  
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**Certificate of Mailing Under 37 CFR 1.8**

I certify that this Information Disclosure Statement and all enclosed materials are being deposited with the United States Postal Service on January 14, 2004 with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
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David N. Lathrop



Form PTO-14

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEDOCKET  
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## INFORMATION DISCLOSURE STATEMENT

APPLICANT  
Peter Graham Craven, et al.FILING DATE  
October 27, 2003

GROUP

## U.S. PATENT DOCUMENTS

*Exam. Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	3 5 6 9 9 5 2	03/09/71	Schindler			12/12/67
	3 6 1 3 0 6 7	10/12/71	Haberle			07/15/69
	3 6 7 6 6 0 0	07/11/72	Kaneko et al.			06/22/70
	3 7 4 5 5 6 2	07/10/73	Rosenbaum			12/30/71
	3 7 5 4 2 3 8	08/21/73	Oswald			04/02/70
	3 7 9 5 9 0 0	03/05/74	Monford, Jr.			11/09/71
	3 9 0 9 7 2 1	09/30/75	Bussgang, et al.			02/28/74
	3 9 3 7 8 9 7	02/10/76	Song, Ching-Long			07/25/74
	4 3 7 9 2 8 6	04/05/83	Yokota et al.			07/22/81
	4 5 2 0 4 9 1	05/28/85	Raulin et al.			11/04/82
	4 6 1 4 9 3 4	09/30/86	Kobayashi et al.			02/10/84
	4 8 2 1 1 1 9	04/11/89	Gharavi et al.			05/04/88
	5 0 7 0 5 1 5	12/03/91	Iwahashi et al.			02/28/89
	5 8 1 8 8 3 4	10/06/98	Skierszkan et al.			03//11/96
	6 4 8 0 5 5 0	11/12/02	Zimmermann, Gerhard			12/3/96

## FOREIGN PATENT DOCUMENTS

*Exam. Initial	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	EP 0 5 0 4 6 2 7A2	9/23/92	European Patent Office			
	EP 0 5 0 4 9 2 7A2	9/23/92	European Patent Office			
	EP 0 5 9 6 6 6 3A2	5/11/94	European Patent Office			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Jae Jeong Hwang et al., Transmission Noise Eliminations in BDPCM Image. IEEE Transactions on Consumer Electronics, Vol. 39, No. 3, August, 1993, pages 151-158
	Rich Bastian, Subjective Improvements in DPCM-AQ Performance Based on Adaptive Noise Shaping, IEEE; Transmission on Accoustics, Speech & Signal Processing, Vol. ASSP-29, No. 5, Oct.. 1981, pages 1067-1071.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP; draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.